

WHAT IS CLAIMED IS:

1. A first storage system connected to a computer and a second storage system, comprising:

- a first storage;
- a first controller for controlling said first storage system; and
- a second controller for controlling input/output operations to/from said second storage system, said second storage system having a controller and a second storage connected to said controller,

wherein said first controller creates a file system in said second storage.

2. A first storage system according to claim 1, wherein:

- said second controller manages logical units created in said second storage as a RAID group possessed by said first storage system, and

- said first controller creates a file system in said second storage using said RAID group.

3. A first storage system according to claim 1, wherein:

- said first controller is responsive to an access request for a file received from said computer for identifying that a file system in which said file is stored has been created in said second storage, and accesses a file stored in said second storage through said second controller.

4. A first storage system according to claim 1,

wherein:

said second controller is connected to a plurality of second storage systems.

5. A first storage system according to claim 1, wherein:

said first controller creates a file system in said first storage, and manages the file system created in said first storage and a file system created in said second storage such that said file systems are recognized by said computer as a single file system.

6. A first storage system according to claim 1, wherein:

said first controller creates a file system in said first storage, and copies data in the file system created in said first storage into said second storage while maintaining the structure of said file system.

7. A first storage system according to claim 6, wherein:

said first controller copies the data in the file system created in said first storage into said second storage, and thereafter erases the data in the file system created in said first storage.

8. A first storage system according to claim 6, wherein:

said first controller or said second controller adds an attribute indicative of prohibition of a write access from said computer to the file system

when the data in the file system created in said first storage is copied into said second storage.

9. A first storage system according to claim 8, wherein:

said first storage system is connected to a management device, such that said first controller creates a file system, copies the data in the file system created in said first storage into said second storage, and adds the attribute based on an instruction from said management device.

10. A first storage system according to claim 9, wherein:

said management device sets a time at which a new file system is created in said first storage;

said first controller creates a new file system in said first storage upon arrival of said time; and

said first controller stores data written from said computer in said new file system, and moves a file system created in said first storage which has stored data written from said computer before said time into said second storage.

11. A first storage system according to claim 10, further comprising a management table,

wherein said storage system manages the structure of a file system using said management table.

12. A system for storing a file accessed by a computer, comprising:

a first storage system, said first storage system connected to said computer;

a second storage system;

a first storage;

a first controller for controlling said first storage system; and

a second controller for controlling input/output operations to/from said second storage system,

wherein said second storage system includes a controller, and a second storage connected to said controller, and

said first controller creates a file system in said second storage, and accesses the file system created in said second storage system in response to an access request for the file system from said computer.

13. A system according to claim 12, wherein:

said first controller creates a file system in said first storage, and manages the file system created in said first storage and a file system created in said second storage such that said file systems are recognized by said computer as a single file system.

14. A system according to claim 12, further comprising a management device, wherein:

said management device instructs said first controller to move a file system created in said first storage into said second storage;

said first controller is responsive to said

instruction for copying data in the file system created in said first storage into said second storage while maintaining the structure of the file system, and erases the data in the file system created in said first storage; and

said first controller is responsive to an access request for said file system from said computer for controlling said second storage to make an access thereto.

15. A system according to claim 14, wherein:

when said first controller copies the data in the file system created in said first storage into said second storage, said management terminal instructs said first storage system to add an attribute which prohibits a data write access from said computer to said file system; and

said first controller or said second controller adds said attribute to said file system.

16. A system according to claim 15, wherein:

said management device sets a time at which a new file system is created in said first storage;

said first controller creates a new file system in said first storage upon arrival of said time; and

said first controller writes data received from said computer after said time into said new file system, and moves a file system created in said first storage which has stored data written from said

computer before said new file system was created into said second storage.

17. A computer program product for a first storage system which is connected to a computer and a second storage system, said product comprising:

- a code for controlling input/output operations to/from a first storage included in said first storage system;

- a code for a controller included in said second storage system to control input/output operations to/from a second storage included in said second storage system;

- a code for creating a file system in said second storage; and

- a computer readable storage medium for storing said codes.

18. A computer program product according to claim 17, further comprising:

- a code for creating a file system in said first storage; and

- a code for copying data in the file system created in said first storage into said second storage while maintaining the structure of the file system.

19. A computer program product according to claim 18, further comprising:

- a code for erasing the data in said file system created in said first storage system after copying the data in said file system created in said

first storage into said second storage.

20. A computer program product according to claim 18, further comprising:

a code for adding an attribute which prohibits a data write access from said computer to the file system created in said first storage when the data in the file system created in said first storage is copied into said second storage.